

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P290971

Luminaire Tested: **14GR-LD5-36-A-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290971
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33314)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-36-A-UNV-L83050-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3879.0 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

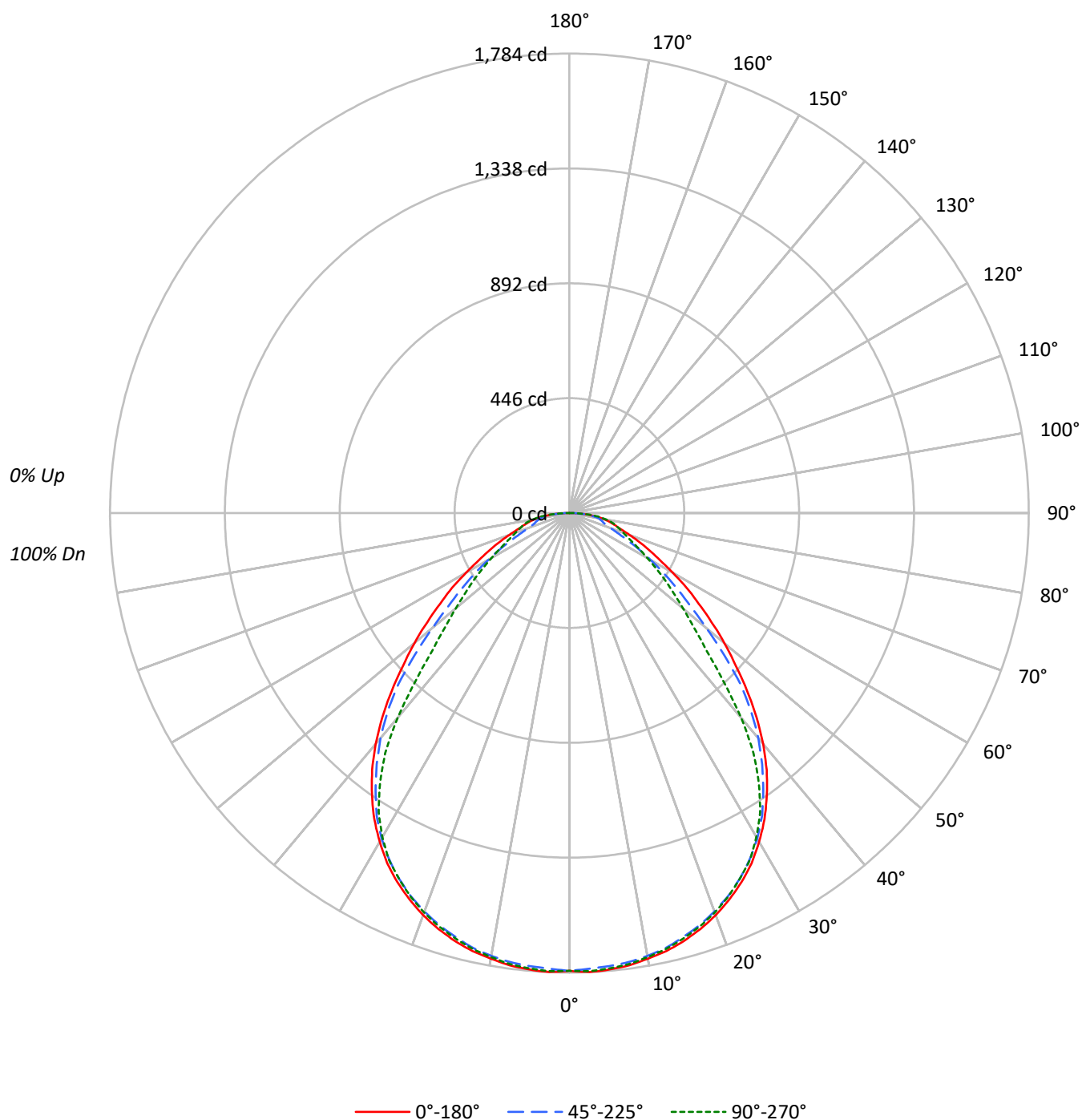
Input Watts (W): 29.946
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74		
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64		
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56		
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50		
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44		
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40		
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36		
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33		
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4783	4783	4783
5°	4806	4770	4794
10°	4800	4771	4783
15°	4791	4749	4764
20°	4757	4714	4727
25°	4695	4649	4652
30°	4580	4532	4513
35°	4392	4312	4214
40°	4111	4007	3646
45°	3713	3573	2849
50°	3293	2900	2410
55°	2874	2380	2126
60°	2492	1959	1877
65°	2186	1572	1733
70°	1950	1333	1744
75°	1902	1405	1948
80°	2108	1773	2233
85°	2198	1893	2615



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.7	4.3
10°-20°	483.1	12.5
20°-30°	722.7	18.6
30°-40°	815.8	21.0
40°-50°	692.1	17.8
50°-60°	468.3	12.1
60°-70°	279.5	7.2
70°-80°	175.1	4.5
80°-90°	73.6	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1374.5	35.4
0°-40°	2190.4	56.5
0°-60°	3350.8	86.4
0°-90°	3879.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3879.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1778	1778	1778	1778	1778	
5°	1779	1774	1766	1778	1775	169
15°	1720	1716	1705	1716	1710	485
25°	1581	1576	1566	1573	1567	727
35°	1337	1328	1313	1301	1283	833
45°	976	979	939	804	749	752
55°	613	584	507	454	453	552
65°	343	285	247	263	272	343
75°	183	163	135	178	187	197
85°	71	68	61	79	85	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1777.5	1777.5	1777.5	1777.5	1777.5
2.5°	1783.8	1778.4	1770.3	1781.1	1780.2
5°	1779.3	1773.9	1765.8	1778.4	1774.8
7.5°	1771.2	1766.7	1758.6	1770.3	1766.7
10°	1756.8	1753.2	1746.0	1755.9	1750.5
12.5°	1741.5	1738.8	1729.8	1738.8	1733.4
15°	1719.9	1716.3	1704.6	1716.3	1710.0
17.5°	1692.8	1688.3	1678.4	1688.3	1682.9
20°	1661.3	1655.9	1646.0	1655.9	1650.5
22.5°	1623.5	1619.0	1610.0	1619.0	1611.8
25°	1581.1	1575.7	1565.8	1573.0	1566.7
27.5°	1532.5	1525.3	1516.3	1521.7	1518.1
30°	1473.9	1464.9	1458.6	1458.6	1452.3
32.5°	1410.0	1403.6	1392.8	1386.5	1378.4
35°	1337.0	1328.0	1312.7	1300.9	1282.9
37.5°	1258.6	1247.8	1228.9	1199.1	1174.8
40°	1170.3	1156.8	1140.6	1082.0	1037.9
42.5°	1075.7	1073.0	1045.1	945.1	883.8
45°	975.7	979.3	938.8	804.5	748.7
47.5°	874.8	887.4	813.5	682.0	653.2
50°	786.5	791.0	692.8	591.9	575.7
52.5°	695.5	688.3	591.0	520.7	509.0
55°	612.6	583.8	507.2	454.1	453.2
57.5°	539.7	486.5	433.3	393.7	398.2
60°	463.1	403.6	364.0	342.4	348.7
62.5°	395.5	338.7	303.6	297.3	308.1
65°	343.3	284.7	246.9	263.1	272.1
67.5°	293.7	244.2	200.9	239.6	243.3
70°	247.8	211.7	169.4	220.7	221.6
72.5°	209.9	187.4	146.9	200.0	202.7
75°	182.9	163.1	135.1	178.4	187.4
77.5°	160.4	139.6	125.2	154.1	169.4
80°	136.0	112.6	114.4	128.8	144.1
82.5°	104.5	87.4	91.0	106.3	117.1
85°	71.2	67.6	61.3	79.3	84.7
87.5°	37.8	36.0	31.5	45.0	42.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)